

Title (en)
WELDING-TYPE SYSTEM AND METHOD TO PROVIDE A CONSISTENT ELECTRODE STATE FOR WELDING

Title (de)
SCHWEISSSYSTEM UND VERFAHREN ZUR BEREITSTELLUNG EINES KONSISTENTEN ELEKTRODENZUSTANDS ZUM SCHWEISSEN

Title (fr)
SYSTEME DE SOUDAGE ET PROCÉDÉ POUR LA FOURNITURE D'UN ÉTAT D'ÉLECTRODE COHÉRENT POUR LE SOUDAGE

Publication
EP 3254793 B1 20181024 (EN)

Application
EP 17175018 A 20170608

Priority
US 201615179173 A 20160610

Abstract (en)
[origin: EP3254793A1] The present application relates to a method and a welding-type system (200) to provide a consistent electrode state for welding. Such welding-type system (200) includes: a first wire drive (210) to feed an electrode wire (202) through a welding torch (102); a bidirectional assisting wire drive (212) to advance the electrode wire (202) from a wire supply (204) to the first wire drive (210); a tension-compression detector (232) to detect a first tension-compression state of the electrode wire (202); and one or more motor controllers (220, 222) to control the first wire drive (210) and the assisting wire drive (212) to put the electrode wire (202) in a predetermined position relative to the welding torch (102) by: controlling the first wire drive (210) to hold the electrode wire (202); and controlling the assisting wire drive (212) to advance or retract the electrode wire (202) based on the first tension-compression state to put the electrode wire (202) in a second tension-compression state.

IPC 8 full level
B23K 9/095 (2006.01); **B23K 9/12** (2006.01); **B23K 9/133** (2006.01); **B23K 9/173** (2006.01); **B23K 9/29** (2006.01)

CPC (source: CN EP US)
B23K 9/0956 (2013.01 - EP US); **B23K 9/124** (2013.01 - CN); **B23K 9/125** (2013.01 - EP US); **B23K 9/1336** (2013.01 - CN EP US); **B23K 9/173** (2013.01 - EP US); **B23K 9/295** (2013.01 - EP US)

Cited by
CN113787296A; EP3588766A1; CN110640269A; CN114406569A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
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EP 17175018 A 20170608; CA 2967068 A 20170511; CN 201710425516 A 20170608; CN 202210355485 A 20170608; MX 2017007360 A 20170606; US 201615179173 A 20160610; US 202117165619 A 20210202